# VINES AND MINING

# COAL MEASURES

Government Makes Report on Six Hundred-Foot Tunnel in J. C. Clancy's Improved Cyathe East-Central Carbon County Field.

The coal field on the western edge of the Rocky mountains in Wyoming, just east of the great Grand River field, was surveyed during the summer of 1966 by a seven Troughs and Vernon, have been surveyed during the summer of 1966 by a strictly on the summer of 1966 by a strictly of the summer of 1966 by a strictly of the summer of 1966 by a strictly on the summer of 1966 by a strictly of the summer of 1966 by a strictly on the summer of 1966 by a strictly on the summer of 1966 by a strictly on the summer of 1966 by a strictly of th

the Rocky mountain ranges depart from their north-south course, so characteristic in Colorado, and swing westward across Wyoming to the Yellowstone national park. At this point of change of direction the mountains are broken into a number of dome and lozenge-shaped uplifts of greater or less extent and of considerable variation in trend, and the coal area of east-central Carbon county is thus a topographic and geologic basin, with an average altitude between 6,500 and 7,000 feet, almost completely rimmed by uplifts ranging in elevation from 7,500 to more than 11,000 feet. The North Platter river crosses the area surveyed west of its center, its principal tributary within the district being the Medicine, which drains the northeastern quarter of the field.

The strike was made several days ago and important in the value coveries at a very early period. At present the vein shows up about five feet wide from the porphyry foot wall to the black dyke hanging wall with the values clear across and two feet of especially fine looking vein matter composed of quartz, quartz porphyry and talc identical in appearance with the vein matter in the shaft. There is enough fine to insure the appearance of high grade values at any time. At present only two feet of two vein described can be classed as milling ore.

The vein was first encountered 260 feet from the entrance of the tunnel and at a depth of about 125 feet from the surface. Altogether about 600 feet of work has been done in the tunnel, two veins have been exposed and a third vein known to lexic will soon be picked up. The latter is all ore-bearing body coming in from the grounds of the Consolidated and paralleling the original Signal Peak vein about 400 feet to the east. It is believed

First Discoveries in 1843.

Coal was discovered in this area by Fremont in 1843, on Platte river, near the mouth of Sage creek, at a point now known as Coal Bluffs. In 1856 Lieutenant F. T. Bryan of the topographic corps of the United States army surveyed a road from Fort Riley to Bridger pass. He was accompanied by H. Engelman, geologist, and they reported coal not only on Platte river, but north of the present village of Elk Mountain, near Medicine Bow river. Bryan reports that on Aug. 18, 1856, they camped for a few days on an island in camped for a few days on an island in Platte river "to rest the animals and burn coal for the forge." The coal beds opened at this time were mined in a desultory way by emigrants and by the Overland Stage company, whose stage ran across the southern portion of this territory from the southern portion of this territory from the summer of 1862 until a short time aft-er the completion of the Union Pacific

Regarding the commercial development of the coal in this region George R. Black, superintendent of the Union Pacific Coal

railroad passing through Carbon been va-cated and taken farther to the north, where it passes through the Hanna coal. The mines at Dana, Carbon county, were opened in 1889 and abandoned in 1891 on account of the coal sparking too badly for locomotive use. The Hanna mines were opened in 1890 and are stil lin operation."

western outlet is today blocked to a large degree by the higher-grade coals of Sweetwater and Uinta counties. At Denver the Carbon county coals come into competition with the Colorado coals, at Omaha with those of the interior basin, and at the Black hills with the Newcastle and Sheridan coals. The development of the metalliferous deposits in the ranges surrounding the basin may create a considerable local demand for this coal.

#### KINDERGARTEN MILL BEING HURRIED ALONG

Construction work on the Kindergarten stamp mill is progressing rapidly under the management of A. Forsythe of Reno, says the Seven Troughs Miner. The grading and excavation work was finished last week and the foundations and retaining walls are now being built. Supplies are arriving rapidly enough to warrant the completion of the work on the scheduled time.

The cement reached its destination last week and early this week blocks and tackle and paraphernalia were unloaded Lumber is arriving daily in readiness for the building as soon as the foundations are completed.

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# SIGNAL PEAK

Seven Troughs Property Finally Reaches Contact.

looking quartz in the vein to insure the appearance of high grade values at any time. At present only two feet of the vein described can be classed as milling ore.

alleling the original Signal Peak vein about 400 feet to the east. It is believed to lie some 200 feet ahead of the farthest advanced face in the tunnel. The Con-

about 300 feet from the mouth of the tun-net, is a great body of low grade values measuring forty-five feet wide where the tunnel crosses it. That it will make big bodies of ore where it crosses the parallel veins, is confidently expected.

### ONE MORE GOLD CAMP

Jessup, the new mining district thirty five miles southwest of Lovelock, contin Early Day Operations.

"The first inines opened in Carbon county, Wyoming, and worked to any extent were opened by this company in 1868 at and near the town of Carbon, the last one being abandoned in 1902. There were seven of them. While the coal is not of the best, it is certain that the mines in that vicinity would still be working had not the main line of the Union Pacific railroad passing through Carbon been varieties.

The Elko Free Press states that a prominent seeker, and during the past week the influx of people has been much larger than any time since the big rush was started. That the new district will make good and will sooner or later occupy a prominent position in the ranks of Nevada's great gold producing camps, is evident from the good reports that are coming in and from the numerous bits stricks that have lately been recorded, says the Lovelock Tribune.

The Elko Free Press states that a prominent mining operator of that place has received word from Boston that the Tuscarora Nevada Mines company has been inent mining operator of that the Tuscarora Nevada Mines company in received word from Boston that the Tuscarora Nevada Mines company in received word from Boston that the Tuscarora Nevada Mines company in received word from Boston that the Tuscarora Nevada Mines company in received word from Boston that the Tuscarora Nevada Mines company in received word from Boston that the Tuscarora Nevada Mines company in received word from Boston that the Tuscarora Nevada Mines company in the parks of Nevada's great gold producing camps, is evident from the good reports that are coming in and from the numerous bit of the company's enterprise is expected to stimulate other mining operator of that the Tuscarora Nevada Mines company in the money will be available for the company. The rounding of the company's enterprise is expected to stimulate other mining operator of that the money will be available for the company in good and will sooner or later occupy a prominent position in the good reports the company i

says the Lovelock Tribune.

The citizens of the new section are keeping abreast of the times, characteristic of Nevada's bustling camps, and have organized a new mining district. The organization was effected last Saturday at a mass meeting held for that purpose. Practically every miner and prospector in the district attended the meeting. It was the district attended the meeting. It was the district attended the meeting in the new tions to the Tuscarcra-Nevada company. Practically every miner and prospector in the district attended the meeting. It was unanimously decided to christen the new district Jessup, in honor of Frank Jessup, one of the original locators. E. H. Francis one of the original locators. E. H. Francis one alected district recorder, Charles The coals of this field range from poor to high-grade bituminous. They are as a rule bright, brittle and non-coking. The best coals in the area are found in the formation called by the geologists the Mesaverde, which contains also the high-grade coals of the field in Routt county, Colorado.

The natural commercial market for The natural commercial market for coals from this section of Wyoming is limited on the east by Omaha, on the west by Rawlins, on the north by the Black hills and on the south by Denver. The western outlet is today blocked to a large degree by the higher-grade coals of are selling at \$75 each and it is recovied.

> on the Coming Heir, the Portland and the Opperman-Van Valkenburg properties.
> On the Coming Heir, which is owned by Frank Bird of Vernon, a 30-foot ledge outcrops quite prominently. From a sample aken at the surface, the assay returns howed gold values to the tune of \$18. The Coming Heir was located last Saturday and so encouraged was Mr. Bird over the resules of his assays that he has decided to commence development work at once. He left this morning for his property and expects to start work on a shaft next Monday.

Tom Frazier, who owns the Portland group, located about a mile north of the original strike, also has an extraordinary showing. On the Portland No. 3 a three and a half-foot ledge has been traced for a distance of 1,000 feet. Two hundred feet of this ledge has been sampled by the panning process and the results are very

Work was recently started on the Hop work was recently started on the hop-kins property and at a depth of a very few feet in the shaft which is being sunk on the footwall side of the big ledge, an eight-inch pay streak was disclosed. The character of the rock is identical with that found on the Jessup-Murray property and the gold values are said to run better than \$150 to the ton. F. H. Van Valkenburg, William Opper-man and T. Cruse who own a group of claims a short distance west of the Jes-

sup-Murray strike, left this morning with a full supply of tools and provisions. These gentlemen will do considerable trenching and when a desirable place is located a deep shaft will be sunk.

### SIGNIFICANT STRIKE IN THE ELY CAMP

While doing the assessment work for this year, preparatory to the application for a United States patent, on the Vesta mine, men in the employ of John Weber,

for a United States patent, on the Vesta mine, men in the employ of John Weber, the owner of the property, made one of the most important strikes that have been discovered in that section of the Robinson district, and one that has proven beyond a question of a doubt the existence and extension of the enriched monzonite copper belt of the district to the north side of the canyon, says the Ely Mining Expositor.

Heretofore it has been the assumption that no sulphide ore of any commercial importance would be discovered on that side of the canyon. However, the strike made by Mr. Weber on the Vesta has completely upset this theory.

In a shaft forty feet deep, which is being sunk in a porphyry intrusion in the limestone, four feet of solid sulphide ore, carrying iron pyrites and copper chalcocites, has been sunk through in the past few days with the bottom of the shaft today in an improved character of ore. No assays have yet been made, but it bears the appearance of the ores from the workings of the Nevada Consolidated and will probably carry better than 4 per cent copper.

The Vesta mine adjoins the property of

per.

The Vesta mine adjoins the property of the Ely Northern Copper company, in which some local people have a stock interest, acquired because of the merits of the ground. The strike of sulphide ore on the neighboring claim is gratifying news and will help to stimulate a better feeling in the Northern property.

# MORE MONEY IN

nide Method Is Touted to Work Wonders.

the Rocky mountains in Wyoming, just east of the great Grand River field, was surveyed during the summer of 1906 by a party of government geologists, and a report on the work has just been issued by the United States geological survey as a chapter in bulletin No. 316, which forms Part II of "Contributions to Economic Geology, 1906."

Fart II of "Contributions to Economic Geology, 1906."

The area studied lies at the point where the Rocky mountain ranges depart from the Rocky mountain ranges depart from their north-south course, so characteristic in Colorado, and swing westward across Wyoming to the Vallowsteve pational The secret of Clancy's process lies in the fact that it eliminates tellurium, which has been the bugaboo of ore treatment in the Cripple Creek camp. The new process eliminates sulpho-tellurides at a minimum cost, and so impressed are

> secretly testing his process at its mill in Colorado City and the test is said to have passed the experimental stage to a point where the company has virtually decided from the entrance of the tunnel and at a depth of about 125 feet from the surface. Altogether about 600 feet of work has been done in the tunnel, two veins have been done in the tunnel, two veins have the company has virtually decided dent Irving Howbert admitted tonight that Clancy had called the company's attention to a process that is receiving serious consideration, but declined to go into details, explaining that the company was not yet ready to make public the details of the process or its intentions with reference to adopting it. From other source it was learned that there is no longer any advanced face in the tunnel. The Consolidated people have already proved it to be a very promising ore-bearing body so that the Signal Peak company is looking for important developments when it is encountered some 400 or 500 feet below the surface.
>
> The cross fissure, which was penetrated in all the big mining camps of the world. For years he was in the Johannesburg district, and is the inventor of the Depur process. of the Denny process. Later he went to Australia and for several years has been n this country making a study of Crip-ole Creek and Nevada ore. He has been working on the Homestake and Los Angeles properties, and during the past several months has been quietly perfecting his new process at the Portland mill in Colorado City.

#### BORN AND CHRISTENED TUSCARORA'S BIG CO. IS FINALLY FINANCEO

The Elko Free Press states that a prom-

per goes on to say;
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building of the power plant, and also the placing of concentrators and additional machinery in the present forty-stamp mill for the purpose of reducing or concentrat-ing the silver ore on the dumps of the several mines, as well as to test the ores as developments are made upon the vari-ous mines, pending the time when you will be ready to erect the reducing plant of not less than 1,000 tons per day and more probably one of 2,000 tons per day. In fact, in my opinion, within two years aft-er operations commence the mines will be in a position to produce at a minimum cost not less than 4,000 tons per day.'
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#### PERSONAL EQUATION IN MINE SAMPLING

A great deal has been written about taking a sample in the process of examining a mine, says Mining Science of Denver. The accepted method is to chisel a channel across the face to be sampled, using a hammer and moil as tools and catching the sample either in a box or on a canvas sheet. Such great emphasis has been given this method that the courts have given it legal recognition, and he would be a foolish engineer who would take samples in any other way-for court

In all the discussions of sampling the essence of the thing seems to have been completely lost sight of in discussing tools and methods, and the essence of sampling is to take a fair sample; a sample that accurately represents the face sampled. Now the idea of channeling a trench of uniform cross-section across a face of ore is in many cases ridiculous. Consider such a face as is often found in the breccia ore of Cripple Creek. It 's obviously impossible to chisel a channel

In brief, the judgment of the sample the mechanical means employed ten per cent. A fair-minded man, who is also a good judge of rock, can take a thoroughly the big mining men of the district with Clancy's claim that they are now backing

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while a man of poor judgment cannot be

while a man of poor judgment cannot be relied upon to take a dependable sample with any means known to the profession. Furthermore, there is no method of sampling in which prejudice—which is the opposite but in this case the counterpart of fair-minded judgment—cannot manifest itself. This is strikingly brought out in the mining lawsuits. Two men will channel across the same face and, to view the channels, both look fair; yet, one will run high and the other low, according to the desires of the sampler. Like many another matter, the personal equation is the important matter. Sampling is a question of the man rather than the method.

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